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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 08:50:34 ON 29 AUG 2007

|                      |            |         |
|----------------------|------------|---------|
| => file reg          |            |         |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL   |
|                      | ENTRY      | SESSION |
| FULL ESTIMATED COST  | 0.21       | 0.21    |

FILE 'REGISTRY' ENTERED AT 08:50:44 ON 29 AUG 2007  
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STRUCTURE FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6  
DICTIONARY FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\Angela\Struc 1.str

L1      STRUCTURE UPLOADED

=> d  
L1 HAS NO ANSWERS  
L1      STR  
/ Structure 1 in file .gra /

Structure attributes must be viewed using STN Express query preparation.

=> l1

SAMPLE SEARCH INITIATED 08:50:59 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 7909 TO ITERATE

24 ANSWERS

25.3% PROCESSED 2000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 152849 TO 163511  
PROJECTED ANSWERS: 1314 TO 2482

L2 24 SEA SSS SAM L1

=> l1 full

FULL SEARCH INITIATED 08:51:09 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 157820 TO ITERATE

2060 ANSWERS

100.0% PROCESSED 157820 ITERATIONS  
SEARCH TIME: 00.00.01

L3 2060 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\Angela\Struc 2.str

L4 STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4 STR

/ Structure 2 in file .gra /

Structure attributes must be viewed using STN Express query preparation.

=> l4

SAMPLE SEARCH INITIATED 08:51:28 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 498 TO ITERATE

25 ANSWERS

100.0% PROCESSED 498 ITERATIONS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 8622 TO 11298  
PROJECTED ANSWERS: 200 TO 800

L5 25 SEA SSS SAM L4

=> l4 full

FULL SEARCH INITIATED 08:51:37 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 9557 TO ITERATE

100.0% PROCESSED 9557 ITERATIONS  
SEARCH TIME: 00.00.02

638 ANSWERS

L6 638 SEA SSS FUL L4

=> file caplus

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |

FULL ESTIMATED COST

|        |        |
|--------|--------|
| 344.20 | 344.41 |
|--------|--------|

FILE 'CAPLUS' ENTERED AT 08:51:44 ON 29 AUG 2007  
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FILE COVERS 1907 - 29 Aug 2007 VOL 147 ISS 10  
FILE LAST UPDATED: 28 Aug 2007 (20070828/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> 13 and 16

4943 L3

1794 L6

L7 305 L3 AND L6

=> 17 and glass

754184 GLASS

L8 62 L7 AND GLASS

=> 17 and silicon

840422 SILICON

L9 51 L7 AND SILICON

=> 18 or 19

L10 101 L8 OR L9

=> d ibib abs hitstr 91-101

L10 ANSWER 91 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1993:523432 CAPLUS <<LOGINID::20070829>>  
DOCUMENT NUMBER: 119:123432

TITLE: Manufacture of fluorine-containing hydrophobic silica  
 films by sol-gel process  
 INVENTOR(S): Tsucha, Toshio  
 PATENT ASSIGNEE(S): Murakami Kaimeido KK, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| JP 05116989 | A    | 19930514 | JP 1991-175782  | 19910621 |
| JP 2592018  | B2   | 19970319 |                 |          |

PRIORITY APPLN. INFO.: JP 1991-175782 19910621  
 AB The films are formed on a substrate ( \*\*\*glass\*\*\* , or metal) with high  
 bonding strength by sol-gel process from a starting material contg. water,  
 solvent, catalyst, Si alkoxide, and F-contg. alkoxide. Preferably, the Si  
 alkoxide is selected from Si(OC<sub>3</sub>H<sub>7</sub>)<sub>4</sub>, Si(OC<sub>2</sub>H<sub>5</sub>)<sub>4</sub>, Si(OC<sub>3</sub>H<sub>9</sub>)<sub>4</sub>, and/or  
 Si(OC<sub>3</sub>H<sub>7</sub>)<sub>4</sub>, and the F-contg. alkoxide is selected from  
 CF<sub>3</sub>(CF<sub>2</sub>)<sub>n</sub>CH<sub>2</sub>-CH<sub>2</sub>SiCl<sub>3</sub> (n = 0, 5, 7) or CF<sub>3</sub>(CF<sub>2</sub>)<sub>n</sub>CH<sub>2</sub>-CH<sub>2</sub>Si(OCH<sub>3</sub>)<sub>3</sub> (n = 0,  
 5, 7).  
 IT \*\*\*429-60-7\*\*\* \*\*\*83048-65-1\*\*\* \*\*\*85857-16-5\*\*\*  
 RL: USES (Uses)  
 (in manuf. of fluorine-contg. hydrophobic silica films by sol-gel  
 process, for bonding strength with substrate)  
 RN 429-60-7 CAPLUS  
 CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 3 in file .gra /

RN 83048-65-1 CAPLUS  
 CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-  
 heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 4 in file .gra /

RN 85857-16-5 CAPLUS  
 CN Silane, trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (CA  
 INDEX NAME)

/ Structure 5 in file .gra /

L10 ANSWER 92 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1993:259795 CAPLUS <<LOGINID::20070829>>  
 DOCUMENT NUMBER: 118:259795  
 TITLE: Water-repellent products, and their manufacture  
 INVENTOR(S): Hirayama, Naoto; Nagayama, Hirotsugu; Takigawa, Akio;  
 Kitaoka, Masaki  
 PATENT ASSIGNEE(S): Nippon Sheet Glass Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 10 pp.  
 CODEN: EPXXDW

DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.             | KIND              | DATE     | APPLICATION NO. | DATE       |
|------------------------|-------------------|----------|-----------------|------------|
| EP 535691              | A1                | 19930407 | EP 1992-116887  | 19921002   |
| R: DE, FR, GB          |                   |          |                 |            |
| JP 05097474            | A                 | 19930420 | JP 1991-257275  | 19911004   |
| PRIORITY APPLN. INFO.: |                   |          | JP 1991-257275  | A 19911004 |
| OTHER SOURCE(S):       | MARPAT 118:259795 |          |                 |            |

AB The water-repellent products consists of a substrate and a dense SiO<sub>2</sub> film contg. a waterproofing agent comprising .gtoreq.1 compds. of an org. Si compd. and an org. F compd., which film is formed by contacting the substrate with a waterproofing agent-contg. aq. H<sub>2</sub>SiF<sub>6</sub> soln. supersatd. in SiO<sub>2</sub>. The waterproofing agent has general formula R<sub>1</sub>mSiR<sub>2</sub>n (R<sub>1</sub> = C<sub>1</sub>-20-alkyl, fluoroalkyl or alkyl or fluoroalkyl contg. -O-, -CO<sub>2</sub>-, -SO<sub>2</sub>N(C<sub>3</sub>H<sub>7</sub>)-, or -CONH- in the chain; R<sub>2</sub> = Cl or C<sub>1</sub>-6-alkoxy; m = 1, 2 or 3; m + n = 4). This method is esp. suitable for the manuf. of weather- and abrasion-resistant lenses and windshields of inorg. and org. \*\*\*glass\*\*\*. A 4M H<sub>2</sub>SiF<sub>6</sub> soln. satd. with SiO<sub>2</sub> gel (.apprx.20 g/L) was dild. with water to 2.5M, aged at 30.degree. for 1 h, after which a 50-wt.% soln. of heptadecafluorodecyltrimethoxysilane in EtOH in amts. of 3 cm<sup>3</sup>/300 cm<sup>3</sup>. A \*\*\*glass\*\*\* plate was immersed in the mixt. at 30.degree. for 6 h, washed with water, and dried to give a water-repellent coating having contact angle 120.degree., and 97.degree. after abrasion.

IT \*\*\*429-60-7\*\*\* \*\*\*83048-65-1\*\*\*

RL: USES (Uses)  
(waterproofing agent, silica gel-satd. hexafluorosilicic acid solns. contg., coating with, by immersion, of org. and inorg. lenses and windshields, for weather and abrasion resistance)

RN 429-60-7 CAPLUS

CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 6 in file .gra /

RN 83048-65-1 CAPLUS

CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 7 in file .gra /

L10 ANSWER 93 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:596589 CAPLUS <<LOGINID::20070829>>

DOCUMENT NUMBER: 117:196589

TITLE: Ceramic coating of nonferrous metals for hydrophobicity and endurance

INVENTOR(S): Murakami, Megumi; Uchida, Yukio; Izumi, Keiji; Tanaka, Hidetoshi; Emura, Masakazu

PATENT ASSIGNEE(S): Nisshin Steel Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| JP 04136181            | A    | 19920511 | JP 1990-256398  | 19900926 |
| PRIORITY APPLN. INFO.: |      |          | JP 1990-256398  | 19900926 |

AB The nonferrous metal is coated with a hydrophobic inorg. oxide film for endurance. The inorg. oxide film is a fluoroalkylsilane-contg. oxide of Al, Zr, Ti, Si, W, Ce, Sn, and/or Y. For coating, an org. solvent contg. .gtoreq.0.005 wt.% alkoxide, monomethylalkoxide, and/or acetylacetonate of Al, Zr, Ti, Si, W, Ce, Sn, and/or Y and 0.005-0.30 mol% (based on the above contents) fluoroalkylsilane is used and dried at 150-450.degree.. The contact angle with water of the coated inorg. oxide film is 100-119.degree..

IT \*\*\*429-60-7\*\*\* \*\*\*83048-65-1\*\*\*

RL: USES (Uses)  
(coating with inorg. film contg., on nonferrous metal, for hydrophobicity and endurance)

RN 429-60-7 CAPLUS

CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 8 in file .gra /

RN 83048-65-1 CAPLUS

CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 9 in file .gra /

L10 ANSWER 94 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:656270 CAPLUS <<LOGINID::20070829>>

DOCUMENT NUMBER: 115:256270

TITLE: Synthesis and properties of fluorine-containing organosilicon compounds by the reactions of vinyl- and allylsilanes with fluoroalkanoyl peroxides

AUTHOR(S): Sawada, Hideo; Gong, Yue Fa; Matsumoto, Takeo; Nakayama, Masaharu; Kosugi, Masanori; Migita, Toshihiko

CORPORATE SOURCE: Tsukuba Res. Lab., Nippon Oil Fats Co., Ltd., Tsukuba, 300-26, Japan

SOURCE: Yukagaku (1991), 40(9), 730-7  
CODEN: YKGKAM; ISSN: 0513-398X

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

OTHER SOURCE(S): CASREACT 115:256270

AB Reaction of (RCO<sub>2</sub>)<sub>2</sub>O [I, R = C<sub>3</sub>F<sub>7</sub>, C<sub>6</sub>F<sub>13</sub>, CF(CF<sub>3</sub>)OC<sub>3</sub>F<sub>7</sub>, CF(CF<sub>3</sub>)OCF<sub>2</sub>CF(CF<sub>3</sub>)OC<sub>3</sub>F<sub>7</sub>] with R<sub>1</sub>SiCH:CH<sub>2</sub> (R<sub>1</sub> = Me, MeO, EtO) gave R(CH<sub>2</sub>CHSiR<sub>1</sub>)<sub>n</sub>R (n = 2,3) whereas reaction of I with R<sub>2</sub>SiCH<sub>2</sub>CH:CH<sub>2</sub> (R<sub>2</sub> = Me, MeO, EtO, Me<sub>3</sub>SiO) gave R<sub>2</sub>SiCH<sub>2</sub>CH(OCOR)CH<sub>2</sub>R. The synthesis of these fluorine-contg. \*\*\*silicon\*\*\* compds. is possible under mild conditions (30-40.degree. C) and products bearing alkoxy group have good

water- and oil-repellency.

|    |                    |                    |                    |
|----|--------------------|--------------------|--------------------|
| IT | ***135131-79-2P*** | ***135131-80-5P*** | ***135131-81-6P*** |
|    | ***135131-82-7P*** | ***135131-83-8P*** | ***135179-25-8P*** |
|    | ***137425-21-9P*** | ***137425-23-1P*** | ***137425-24-2P*** |
|    | ***137425-26-4P*** | ***137451-32-2P*** | ***137451-33-3P*** |
|    | ***137451-34-4P*** | ***137451-35-5P*** |                    |

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 135131-79-2 CAPLUS  
CN 2,8-Dioxa-3,7-disilanonane, 4-(2,2,3,3,4,4,4-heptafluorobutyl)-6-(heptafluoropropyl)-3,3,7,7-tetramethoxy- (9CI) (CA INDEX NAME)

/ Structure 10 in file .gra /

RN 135131-80-5 CAPLUS  
CN 4,7,14,17-Tetraoxaeicosane, 1,1,1,2,2,3,3,5,6,6,8,13,15,15,16,18,18,19,19,20,20,20-docosafluoro-5,8,13,16-tetrakis(trifluoromethyl)-9,11-bis(trimethoxysilyl)- (9CI) (CA INDEX NAME)

/ Structure 11 in file .gra /

/ Structure 12 in file .gra /

RN 135131-81-6 CAPLUS  
CN 2,10-Dioxa-3,9-disilaundecane, 4-(2,2,3,3,4,4,4-heptafluorobutyl)-8-(heptafluoropropyl)-3,3,9,9-tetramethoxy-6-(trimethoxysilyl)- (9CI) (CA INDEX NAME)

/ Structure 13 in file .gra /

RN 135131-82-7 CAPLUS  
CN 2,10-Dioxa-3,9-disilaundecane, 3,3,9,9-tetramethoxy-4-[1,2,2,2-tetrafluoro-1-(heptafluoropropoxy)ethyl]-8-[2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propyl]-6-(trimethoxysilyl)- (9CI) (CA INDEX NAME)

/ Structure 14 in file .gra /

RN 135131-83-8 CAPLUS  
CN 4,7,16,19-Tetraoxadocosane, 1,1,1,2,2,3,3,5,6,6,8,15,17,17,18,20,20,21,21,22,22,22-docosafluoro-5,8,15,18-tetrakis(trifluoromethyl)-9,11,13-tris(trimethoxysilyl)- (9CI) (CA INDEX NAME)

/ Structure 15 in file .gra /

/ Structure 16 in file .gra /

RN 135179-25-8 CAPLUS  
CN 2,8-Dioxa-3,7-disilanonane, 3,3,7,7-tetramethoxy-4-[1,2,2,2-tetrafluoro-1-(heptafluoropropoxy)ethyl]-6-[2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propyl]- (9CI) (CA INDEX NAME)

/ Structure 17 in file .gra /

RN 137425-21-9 CAPLUS  
CN Silane, [4,4,5,5,6,6,6-heptafluoro-1(or 2)-hexenyl]trimethoxy- (9CI) (CA  
INDEX NAME)  
  
CM 1  
  
CRN 137425-20-8  
CMF C9 H15 F7 O3 Si

/ Structure 18 in file .gra /

RN 137425-23-1 CAPLUS  
CN Silane, triethoxy[4,4,5,5,6,6,6-heptafluoro-1(or 2)-hexenyl]- (9CI) (CA  
INDEX NAME)  
  
CM 1  
  
CRN 137425-22-0  
CMF C12 H21 F7 O3 Si

/ Structure 19 in file .gra /

RN 137425-24-2 CAPLUS  
CN Silane, trimethoxy[4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluoro-1(or  
2)-nonenyl]- (9CI) (CA INDEX NAME)  
  
CM 1  
  
CRN 121432-32-4  
CMF C12 H15 F13 O3 Si

/ Structure 20 in file .gra /

RN 137425-26-4 CAPLUS  
CN Silane, triethoxy[4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluoro-1(or  
2)-nonenyl]- (9CI) (CA INDEX NAME)  
  
CM 1  
  
CRN 137425-25-3  
CMF C15 H21 F13 O3 Si

/ Structure 21 in file .gra /

RN 137451-32-2 CAPLUS  
CN Butanoic acid, heptafluoro-, 3,3,4,4,5,5,5-heptafluoro-1-  
[(trimethoxysilyl)methyl]pentyl ester (9CI) (CA INDEX NAME)



/ Structure 22 in file .gra /

RN 137451-33-3 CAPLUS  
CN Butanoic acid, heptafluoro-, 3,3,4,4,5,5,5-heptafluoro-1-  
[(triethoxysilyl)methyl]pentyl ester (9CI) (CA INDEX NAME)

/ Structure 23 in file .gra /

RN 137451-34-4 CAPLUS  
CN Heptanoic acid, tridecafluoro-, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-  
[(trimethoxysilyl)methyl]octyl ester (9CI) (CA INDEX NAME)

/ Structure 24 in file .gra /

RN 137451-35-5 CAPLUS  
CN Heptanoic acid, tridecafluoro-, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-  
[(triethoxysilyl)methyl]octyl ester (9CI) (CA INDEX NAME)

/ Structure 25 in file .gra /

L10 ANSWER 95 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1991:516030 CAPLUS <<LOGINID::20070829>>  
DOCUMENT NUMBER: 115:116030  
TITLE: Agriculture plastic films with mist-preventing effects  
INVENTOR(S): Harada, Kiyoshi; Nishikata, Akira; Yamamoto, Yasushi  
PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan; C. I.  
Kasei Co., Ltd.  
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| JP 03072549 | A    | 19910327 | JP 1989-175282  | 19890706 |

PRIORITY APPLN. INFO.: JP 1989-175282 19890706

AB The title films contain F-contg. org. Si compd. surfactants  
R1ASiMe3-n[(OSiMe2)mZO(CxH2xO)yR]n or R1ASiMe2(OSiMe2)mZO(CxH2xO)yZ(SiMe2O)  
mSiMe2AR1 (R1 = C4-20 fluoroalkyl or ether; R = H or C1-10 hydrocarbyl;  
A, Z = divalent org. group; m = 0 or 1, n = 1-3, x = 2 or 3, y = 1-50).  
Thus, PVC 100, DOP 45, tricresyl phosphate 3,  
F17C8CH2CH2SiMe2(CH2)30(CH2CH2O)10Me (I) 0.1, and additives 7 parts were  
blended and calendered to give a 100-.mu.m film having good  
mist-preventing effects, vs. poor for a film without I.

IT \*\*\*133068-40-3\*\*\* \*\*\*135805-93-5\*\*\*  
RL: USES (Uses)  
(surfactants, plastics contg., for mist-preventing agriculture films)

RN 133068-40-3 CAPLUS  
CN 3,6,9,14,16,21,24,27-Octaoxa-13,15,17-trisilanonacosane-1,29-diol,  
15-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-15-[[[3-[2-  
[2-(2-hydroxyethoxy)ethoxy]ethoxy]propyl]dimethylsilyl]oxy]-13,13,17,17-

tetramethyl- (9CI) (CA INDEX NAME)

/ Structure 26 in file .gra /

RN 135805-93-5 CAPLUS  
CN 3,6,9,14,16,21,24,27-Octaoxa-13,15,17-trisilanonacosane-1,29-diol,  
15-[[[3-[2-[2-(2-hydroxyethoxy)ethoxy]ethoxy]propyl]dimethylsilyl]oxy]-  
13,13,17,17-tetramethyl-15-[3,4,4,4-tetrafluoro-3-(heptafluoropropoxy)-2-  
methylbutyl]- (9CI) (CA INDEX NAME)

/ Structure 27 in file .gra /

/ Structure 28 in file .gra /

L10 ANSWER 96.OF 101 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1991:166515 CAPLUS <<LOGINID::20070829>>  
DOCUMENT NUMBER: 114:166515  
TITLE: Coating materials on the openings of containers for  
the prevention of sagging of contents  
INVENTOR(S): Takenaka, Yoshiaki  
PATENT ASSIGNEE(S): Toyo Ink Mfg. Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| JP 03012467 | A    | 19910121 | JP 1989-147389  | 19890609 |
| JP 2584512  | B2   | 19970226 |                 |          |

PRIORITY APPLN. INFO.: JP 1989-147389 19890609  
AB The title materials are low condensates of alkoxysilyl group- and F-contg.  
org. Si compds. which are esp. useful on \*\*\*glass\*\*\* containers.  
Thus, XC95-418 2, methanone 95, water 4.8, and AcOH 0.2 g were hydrolyzed  
24 h, coated on \*\*\*glass\*\*\*, and dried to prep. a coating having  
contact angle with water 86.degree. and with salad oil 64.degree., vs. 23  
and 16, resp., without the coating.  
IT \*\*\*429-60-7D\*\*\*, XC95-418, hydrolyzed \*\*\*83048-65-1\*\*\*, XC95-470  
RL: TEM (Technical or engineered material use); USES (Uses)  
(coatings, on container openings, for preventing sagging of contents)  
RN 429-60-7 CAPLUS  
CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 29 in file .gra /

RN 83048-65-1 CAPLUS  
CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-  
heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 30 in file .gra /

L10 ANSWER 97 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1990:592978 CAPLUS <<LOGINID::20070829>>  
DOCUMENT NUMBER: 113:192978  
TITLE: Heat-resistant fluoropolymer composition as cladding  
for optical fibers  
INVENTOR(S): Yamamoto, Takashi; Matsumoto, Tsuruyoshi; Kobayashi,  
Tadao; Shimada, Katsuhiko  
PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 5 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE                       |
|------------------------|------|----------|-----------------|----------------------------|
| -----                  | ---- | -----    | -----           | -----                      |
| EP 357354              | A2   | 19900307 | EP 1989-308657  | 19890825                   |
| EP 357354              | A3   | 19910911 |                 |                            |
| EP 357354              | B1   | 19941026 |                 |                            |
| R: DE, GB, IT, NL      |      |          |                 |                            |
| JP 02153964            | A    | 19900613 | JP 1989-214885  | 19890823                   |
| JP 08019317            | B    | 19960228 |                 |                            |
| US 5117480             | A    | 19920526 | US 1991-642567  | 19910118                   |
| US 5223561             | A    | 19930629 | US 1991-802858  | 19911206                   |
| PRIORITY APPLN. INFO.: |      |          |                 | JP 1988-212339 A 19880829  |
|                        |      |          |                 | US 1989-398917 B1 19890828 |
|                        |      |          |                 | US 1991-642567 A3 19910118 |

AB A fluoro polymer compn., having good heat and thermal degrdn. resistance and processability, and useful as a cladding for optical fibers, comprises 60-99.8% copolymer of perfluoro-2,2-dimethyl-1,3-dioxole (I) with .gtoreq.1 ethylenically unsatd. monomer and 0.2-40% a compd. having hydrocarbon group contg. .gtoreq.1 F atom and .gtoreq.1 functional group selected from the group of OH, SR, CO2H, SO, SO2, CONH, CO2CO, NH, CONHCO, CO2, CN, NCO, CO, HCO2, NH2, SO3H, NHHN2, CONH2, CH:CH2, NH, (RO)nX3-nSi (R = C1-5 alkyl; n = 0-3; X halogen, C1-5 alkyl). Thus, a soln. of 100 wt. parts I-tetrafluoroethylene copolymer and 2 wt. parts 3,3,3-trifluoropropyltrimethoxysilane and Florinate FC-75 (contg. 25 wt.% solids) was coated onto the surface of a quartz \*\*\*glass\*\*\* fiber and then dried at 100.degree. to form a core cladding. The optical fiber showed a light attenuation 10.5 dB/km at 850 nm, and an increase in light attenuation of 1 dB/km after aging for 4000 h at 150.degree..

IT \*\*\*429-60-7\*\*\* \*\*\*83048-65-1\*\*\*

RL: USES (Uses)

(claddings contg., for optical fibers, heat- and thermal  
degrdn.-resistance)

RN 429-60-7 CAPLUS

CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 31 in file .gra /

RN 83048-65-1 CAPLUS

CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-

heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 32 in file .gra /

L10 ANSWER 98 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1990:60646 CAPLUS <<LOGINID::20070829>>  
DOCUMENT NUMBER: 112:60646  
TITLE: Hydrophobic coating of steel strip with an alkoxide or  
acetate  
INVENTOR(S): Izumi, Keiji; Deguchi, Takenori; Murakami, Megumi;  
Tanaka, Hidetoshi  
PATENT ASSIGNEE(S): Nisshin Steel Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.  | KIND   | DATE             | APPLICATION NO.  | DATE     |
|---|--|------------------|------------------|----------|
| JP 01068477   | A  | 19890314         | JP 1987-226138   | 19870909 |
| PRIORITY APPLN. INFO.:  |  |                  | JP 1987-226138   | 19870909 |
| AB The steel strip is coated with .gtoreq.0.005% total of an alkoxide, Me<br>alkoxide, and/or acetate of Al, Zr, Ti, Si, W, Ce, Sn, and/or Y by using<br>an alc. soln. contg. 0.005-0.30 mol% fluoroalkylsilane, and then heated at<br>.gtoreq.100.degree. to form a hydrophobic layer resistant to wear loss.<br>The coated strip shows high contact angle with water (100-122.degree.). |  |                  |                  |          |
| IT  | ***429-60-7***   | ***83048-65-1*** | ***85857-16-5*** |          |
| RL: USES (Uses)<br>(coating with alc. soln. contg., of steel strip for hydrophobic<br>surface)  |  |                  |                  |          |
| RN  | 429-60-7 CAPLUS  |                  |                  |          |
| CN  | Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME) |                  |                  |          |

/ Structure 33 in file .gra /

RN 83048-65-1 CAPLUS  
CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-  
heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 34 in file .gra /

RN 85857-16-5 CAPLUS  
CN Silane, trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (CA  
INDEX NAME)

/ Structure 35 in file .gra /

L10 ANSWER 99 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1988:533014 CAPLUS <<LOGINID::20070829>>

DOCUMENT NUMBER: 109:133014  
 TITLE: Fluoroalkyl silane coating of stainless steel sheets  
 INVENTOR(S): Izumi, Keiji; Deguchi, Takenori; Murakami, Megumi  
 PATENT ASSIGNEE(S): Nisshin Steel Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| JP 63116783 | A    | 19880521 | JP 1986-260477  | 19861031 |
|             |      |          | JP 1986-260477  | 19861031 |

PRIORITY APPLN. INFO.:

AB The uncolored or colored stainless steel sheet is coated with Al, Zr, Ti, and/or Si, and then coated with a fluoroalkyl silane for resistance to finger prints. In coating, an alc. soln. contg. .gtoreq.0.005% alkoxide or acetyl acetate of the metal is used to form a film at .gtoreq.100.degree. before the silane coating. Thus, an ultrasonically degreased stainless steel sheet was dipped in iso-PrOH contg. 0.1 mol Zr acetylacetate, drawn at 2 mm/s, and heated 10 min at 200.degree. to form an OH group-contg. Zr film of .apprx.0.05 .mu.m thick. The coated sheet was dip-coated with iso-PrOH contg. 0.1 mol CF<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>Si(OMe)<sub>3</sub> with post heating at 400.degree. for 5 min. The product resistant to finger prints showed water contact angle of 79.degree. vs. 24.degree. without the silane coating.

IT \*\*\*429-60-7\*\*\* \*\*\*83048-65-1\*\*\*

RL: USES (Uses)  
 (coating with, of stainless steel sheet)

RN 429-60-7 CAPLUS

CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 36 in file .gra /

RN 83048-65-1 CAPLUS

CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 37 in file .gra /

L10 ANSWER 100 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1987:516636 CAPLUS <<LOGINID::20070829>>  
 DOCUMENT NUMBER: 107:116636  
 TITLE: Poly(phenylene sulfide) compositions  
 INVENTOR(S): Yamaguchi, Toshihide; Izutsu, Hitoshi  
 PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| JP 61296063 | A    | 19861226 | JP 1985-137672  | 19850626 |
| JP 06027263 | B    | 19940413 |                 |          |

PRIORITY APPLN. INFO.: JP 1985-137672 19850626

AB Title compns. with excellent mech. and elec. properties, fluidity on molding, and adhesion to metals, useful as a potting material for electronic parts, printed circuit boards, and as connectors for elec. parts and instruments, contain poly(phenylene sulfide) (I), fibrous and/or silicate fillers, and perfluoroalkyl-contg. functional silane compds. Thus, I [inherent viscosity 0.14 (0.4 g/100 mL concd. .alpha.-chloronaphthalene, 206.degree.) 30, \*\*\*glass\*\*\* fibers (length 0.5 mm) 20, fused silica (II) 50, and trifluoroethyltrimethoxysilane (III) 0.8 part were mixed, melt kneaded, and pelletized to obtain a compn. with melt viscosity 600 P (330.degree., 10 g/cm<sup>2</sup> extrusion pressure). Test pieces therefrom showed peel strength 0.7 kg/cm and vol. resistivity 1 .times. 10<sup>16</sup> (dry) and 1 .times. 10<sup>15</sup> .OMEGA.-cm in the pressure cooker test (121.degree., 2 atm, 100 h), compared with 0.1 kg/cm and 1 .times. 10<sup>16</sup> and 8 .times. 10<sup>12</sup> .OMEGA.-cm, resp., for test pieces from a compn. (melt viscosity 1000 P) contg. talc and N-(.beta.-aminoethyl)-.gamma.-aminopropyltriethoxysilane instead of II and III, resp.

IT \*\*\*101947-16-4\*\*\* \*\*\*110338-18-6\*\*\* , Trifluoroethyltrimethoxysilane  
 RL: USES (Uses)  
 (coupling agents, poly(phenylene sulfide) potting compns. contg., with good mech. and elec. properties)

RN 101947-16-4 CAPLUS

CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)- (CA INDEX NAME)

/ Structure 38 in file .gra /

RN 110338-18-6 CAPLUS

CN Silane, trimethoxy(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

/ Structure 39 in file .gra /

L10 ANSWER 101 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:191664 CAPLUS <<LOGINID::20070829>>

DOCUMENT NUMBER: 104:191664

TITLE: Low reflectance transparent material having antisoiling properties

INVENTOR(S): Matsuo, Masashi; Yamagishi, Nobuyuki; Noshiro, Makoto; Jitsugiri, Yukio; Ohnishi, Keiichi

PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 42 pp.  
 CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|------------|------|----------|-----------------|----------|
| EP 166363  | A2   | 19860102 | EP 1985-107552  | 19850619 |

|                        |    |          |                |             |
|------------------------|----|----------|----------------|-------------|
| EP 166363              | A3 | 19861230 |                |             |
| EP 166363              | B1 | 19910807 |                |             |
| R: DE, FR, GB          |    |          |                |             |
| JP 61010043            | A  | 19860117 | JP 1984-129992 | 19840626    |
| JP 03023493            | B  | 19910329 |                |             |
| JP 61215235            | A  | 19860925 | JP 1985-53317  | 19850319    |
| JP 61241143            | A  | 19861027 | JP 1985-82169  | 19850419    |
| JP 05070655            | B  | 19931005 |                |             |
| CA 1257513             | A1 | 19890718 | CA 1985-484686 | 19850620    |
| US 4687707             | A  | 19870818 | US 1986-939296 | 19861205    |
| PRIORITY APPLN. INFO.: |    |          | JP 1984-129992 | A 19840626  |
|                        |    |          | JP 1985-53317  | A 19850319  |
|                        |    |          | JP 1985-82169  | A 19850419  |
|                        |    |          | US 1985-746406 | A1 19850619 |

AB Antisoiling low reflectance (<1.6%) coating materials as multilayers on  
 \*\*\*glass\*\*\* substrates are composed of a .ltoreq.0.3 .mu. metal oxide  
 condensate layer and a .ltoreq.0.2 .mu. per- or polyfluorocarbosilane  
 condensate layer prepd. by hydrolysis in an alc. solvent. Thus, a  
 \*\*\*glass\*\*\* plate was undercoated by dipping in a mixt. contg. Si(OEt)4  
 29.5, Ti(OBu)4 47.2, acetyl acetone 20.5, water 11.0, AcOH (1%) 2.1, EtOAc  
 1.8, EtOH 157.8, and n-BuOH 81.0 wt. parts, withdrawing at 11 cm/min,  
 drying, curing 30 min at 540.degree. to thickness 0.14 .mu. and n 1.80,  
 dipping in 2% aq. HF 1 min, withdrawing, drying, and dipping in a reaction  
 mixt. contg. (OMe)3SiC2H4C6F12C2H4Si(OMe)3 11.7, C9F19C2H4Si(OMe)3 5.1,  
 Si(OMe)4 3.8, 1% aq. AcOH 4.4, di-Bu tin dilaurate 0.1, and tert-BuOH  
 275.1 wt. parts, withdrawing at 4 cm/min, and heating 2 h at 160.degree..  
 The top coating had a thickness 0.09 .mu. and a n 1.40.

IT \*\*\*102116-01-8D\*\*\* , condensation products with silanes  
 \*\*\*102116-04-1D\*\*\* , condensation products with  
 fluoroocetylbi(trimethoxysilane and Me silicate  
 RL: USES (Uses)  
 (antireflective-antisoiling optical coating materials contg.)

RN 102116-01-8 CAPLUS  
 CN Silane, trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-  
 nonadecafluoroundecyl)- (9CI) (CA INDEX NAME)

/ Structure 40 in file .gra /

RN 102116-04-1 CAPLUS  
 CN Silane, trimethoxy[3,4,4,4-tetrafluoro-3-(trifluoromethyl)butyl]- (9CI)  
 (CA INDEX NAME)

/ Structure 41 in file .gra /

=> 17 and CVD  
 73133 CVD  
 L11 9 L7 AND CVD

=> d ibib abs hitstr 1-9

L11 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2006:1265880 CAPLUS <<LOGINID::20070829>>  
 DOCUMENT NUMBER: 147:217655

TITLE: Vapor phase modification of sol-gel derived titania (TiO2) surfaces  
AUTHOR(S): Piwonski, Ireneusz; Ilik, Aneta  
CORPORATE SOURCE: Department of Chemical Technology and Environmental Protection, University of Lodz, Lodz, 90-236, Pol.  
SOURCE: Applied Surface Science (2006), 253(5), 2835-2840  
CODEN: ASUSEE; ISSN: 0169-4332  
PUBLISHER: Elsevier B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB \*\*\*CVD\*\*\* method was used in TiO2 surface modification. TiO2 layers were obtained in sol-gel process and prepd. as thin films on Si wafers in dip-coating method. To define the influence of modification on TiO2 surface properties (e.g., friction), various types of fluoroalkylsilanes were used. The effectiveness of the modification was monitored by FTIR spectroscopy. The topog. and frictional measurements were studied using at. force microscopy (AFM).  
IT \*\*\*429-60-7\*\*\* , (3,3,3-Trifluoropropyl)trimethoxysilane  
\*\*\*101947-16-4\*\*\* , 1H,1H,2H,2H-Perfluorodecyltriethoxysilane  
RL: NUU (Other use, unclassified); USES (Uses)  
(vapor phase modification of sol-gel derived titania (TiO2) surfaces)  
RN 429-60-7 CAPLUS  
CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 42 in file .gra /

RN 101947-16-4 CAPLUS  
CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)- (CA INDEX NAME)

/ Structure 43 in file .gra /

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2005:492684 CAPLUS <<LOGINID::20070829>>  
DOCUMENT NUMBER: 143:28195  
TITLE: Antisoiling thin films and their formation by atmospheric plasma \*\*\*CVD\*\*\*  
INVENTOR(S): Arita, Hiroaki; Kudo, Kazuyoshi; Saito, Atsushi  
PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.             | KIND | DATE   | APPLICATION NO. | DATE     |
|------------------------|------|--|-----------------|----------|
| JP 2005146324          | A    | 20050609   | JP 2003-383496  | 20031113 |
| PRIORITY APPLN. INFO.: |      |  | JP 2003-383496  | 20031113 |
| OTHER SOURCE(S):       |      | MARPAT 143:28195   |                 |          |
| AB                     |      | The films showing surface resistivity 1 .times. 1012 .OMEGA./ .box. at |                 |          |



23.degree. and relative humidity 55%, are formed by feeding gases contg. .gtoreq.10 vol.% N and organometallic compds. bearing fluoroorg. groups into into plasma, and exposing substrates to the excited gases. Uniform films showing good water repellency, oil repellency, and durability are formed by the above process.

IT      \*\*\*429-60-7\*\*\*      \*\*\*83048-65-1\*\*\*      \*\*\*521084-64-0\*\*\*  
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)  
     (formation of antisoiling thin films by atm. plasma      \*\*\*CVD\*\*\*      of  
     gases contg. N and organometallic compds. bearing fluoroorg. groups)  
RN    429-60-7    CAPLUS  
CN    Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 44 in file .gra /

RN    83048-65-1    CAPLUS  
CN    Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-  
     heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 45 in file .gra /

RN    521084-64-0    CAPLUS  
CN    Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-  
     heptadecafluorodecyl)tripropoxy- (9CI) (CA INDEX NAME)

/ Structure 46 in file .gra /

L11 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER:      2005:322625 CAPLUS <<LOGINID::20070829>>  
DOCUMENT NUMBER:      142:374920  
TITLE:      Laminates with good interlayer adhesion and their  
                 manufacture  
INVENTOR(S):      Tejima, Katsuya  
PATENT ASSIGNEE(S):      Dainippon Printing Co., Ltd., Japan  
SOURCE:      Jpn. Kokai Tokkyo Koho, 17 pp.  
                 CODEN: JKXXAF  
DOCUMENT TYPE:      Patent  
LANGUAGE:      Japanese  
FAMILY ACC. NUM. COUNT:    1  
PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| -----                  | ---- | -----    | -----           | -----    |
| JP 2005096312          | A    | 20050414 | JP 2003-334289  | 20030925 |
| PRIORITY APPLN. INFO.: |      |          | JP 2003-334289  | 20030925 |

OTHER SOURCE(S):      MARPAT 142:374920

AB    In title laminates comprising polymer substrates having hydrophilic surface groups, adhesion-improvement layers, and functional layers, the adhesion-improvement layers are obtained from self-assembled thin-film-forming substances having .gtoreq.1 groups for adsorption of self-assembled thin films and .gtoreq.1 groups for orientation of mols. to give self-assembled thin films. The hydrophilic groups of the film-forming substances substitute for the orientation groups. The

laminates are manufd. by (1) irradiating the substrates with energy for surface modification, (2) forming self-assembled thin films by \*\*\*CVD\*\*\*, (3) substituting the orientation groups by the hydrophilic groups for removal of the orientation groups, and (4) forming functional layers on the resulting adhesion-improvement layers. The laminates are useful for packaging or display materials. Thus, a laminate comprising a PET substrate, a layer of self-assembled octadecyltrimethoxysilane thin film, and a SiO<sub>2</sub> gas-barrier layer showed 0 permeability .ltoreq.1 mL/m<sup>2</sup>-day and water vapor permeability .ltoreq.1 g/m<sup>2</sup>-day.

IT \*\*\*18395-30-7\*\*\* , Isobutyltrimethoxysilane \*\*\*51851-37-7\*\*\* ,  
 (Tridecafluoro-1,1,2,2-tetrahydrooctyl)triethoxysilane \*\*\*101947-16-4\*\*\*  
 , (Heptadecafluoro-1,1,2,2-tetrahydrodecyl)triethoxysilane  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (self-assembled, adhesion-improvement layers; manuf. of laminates with  
 good adhesion between polymer substrates and functional layers)  
 RN 18395-30-7 CAPLUS  
 CN Silane, trimethoxy(2-methylpropyl)- (CA INDEX NAME)

/ Structure 47 in file .gra /

RN 51851-37-7 CAPLUS  
 CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (CA  
 INDEX NAME)

/ Structure 48 in file .gra /

RN 101947-16-4 CAPLUS  
 CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-  
 heptadecafluorodecyl)- (CA INDEX NAME)

/ Structure 49 in file .gra /

L11 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2005:209979 CAPLUS <<LOGINID::20070829>>  
 DOCUMENT NUMBER: 142:306128  
 TITLE: Optical instruments having crack-free uniform  
 antisoiling surface layers and chemical vapor  
 deposition apparatus for manufacturing them  
 INVENTOR(S): Kudo, Kazuyoshi; Arita, Hiroaki; Saito, Atsushi  
 PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 36 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE       | APPLICATION NO. | DATE     |
|------------------------|--|------------|-----------------|----------|
| -----                  | ----   | -----      | -----           | -----    |
| JP 2005062522          | A  | 20050310   | JP 2003-293123  | 20030813 |
| PRIORITY APPLN. INFO.: |  |            | JP 2003-293123  | 20030813 |
| OTHER SOURCE(S):       | MARPAT   | 142:306128 |                 |          |
| AB                     | The optical instruments (e.g., lenses) have antisoiling layers prepd. in |            |                 |          |

these steps: (i) introducing discharge gases (e.g., N) into discharge spaces (formed with high-frequency elec. field) to excite at around atm. pressure, (ii) bringing them into contact with source gases of organometallic compds. having F-contg. org. groups in spaces other than the discharge spaces to give indirectly excited gases, and (iii) exposing (metal oxide-surfaced) substrates to the gases. The organometallic compds. may be  $R_1(R_2R_3MO)_jMR_4R_5R_6$  ( $M = Si, Ti, Ge, Zr, Sn; R_1-R_6 = H$ , monovalent group;  $j = 0-150$ ),  $R_1(R_2R_3MNR_7)_jMR_4R_5R_6$  ( $M, R_1-R_6, j = \text{same as above}; R_7 = H, \text{alkyl}$ ),  $[RfX(CH_2)_kY]mMR_8n(OR_9)_p$  ( $M = In, Al, Sb, Y, La; Rf = \text{fluoroalkyl, fluoroalkenyl}; X = \text{linking group, divalent group}; Y = \text{linking group, O}; R_8 = \text{alkyl, alkenyl, aryl}; R_9 = \text{alkyl, alkenyl}; k = 0-50; m + n + p = 3; m \geq 1; n, p = 0-2$ ),  $Rf_1(OC_3F_6)m_1O(CF_2)n_1(CH_2)p_1Z(CH_2)q_1SiR_{23}$  ( $Rf_1 = C_1-16 \text{ perfluoroalkyl}; R_2 = \text{hydrolyzable group}; Z = OCONH, O; m_1 = 1-50; n_1 = 0-3; p_1 = 0-3; q_1 = 1-6; 0 < n_1 + p_1 \leq 6$ ), and/or  $Rf[O(CF_2)_3]a[OCF(CH_3)CF_2]b(OCF_2)c(OCF_2CF_2)dOCZF(CF_2)e[CH_2CY[(CH_2)mSiR_{21}nR_{22}]]pX$  ( $Rf = C_1-16 \text{ perfluoroalkyl}; X = I, H; Y = H, \text{lower alkyl}; Z = F, CF_3; R_{21} = \text{hydrolyzable group}; R_{22} = H, \text{inactive monovalent org. group}; a, b, c, d = 0-200; e = 0, 1; m, n = 0-2; p = 1-10$ ). Also claimed are deposition app. having a pair of opposed electrodes forming the discharge spaces, discharge gas suppliers, source gas suppliers, means for applying voltage between the electrodes, and substrate holders.

IT \*\*\*429-60-7\*\*\* \*\*\*83048-65-1\*\*\* \*\*\*101947-16-4\*\*\*  
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (source gases; optical lenses having crack-free uniform antisoiling surface layers and chem. vapor deposition app. for manufg. them)  
 RN 429-60-7 CAPLUS  
 CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 50 in file .gra /

RN 83048-65-1 CAPLUS  
 CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 51 in file .gra /

RN 101947-16-4 CAPLUS  
 CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)- (CA INDEX NAME)

/ Structure 52 in file .gra /

L11 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:718814 CAPLUS <<LOGINID::20070829>>  
 DOCUMENT NUMBER: 141:252343  
 TITLE: Manufacture of organic thin-film transistors  
 INVENTOR(S): Hirai, Katsura; Kita, Hiroshi; Arita, Hiroaki  
 PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan  
 SOURCE: PCT Int. Appl., 81 pp.  
 CODEN: PIXXD2

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO.  | DATE     |
|--|------|----------|------------------|----------|
| WO 2004075279  | A1   | 20040902 | WO 2004-JP1705   | 20040217 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI  |      |          |                  |          |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |      |          |                  |          |
| EP 1596428   | A1   | 20051116 | EP 2004-711711   | 20040217 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  |      |          |                  |          |
| CN 1751385   | A    | 20060322 | CN 2004-80004225 | 20040217 |
| JP 2003-39535 A 20030218   |      |          |                  |          |
| WO 2004-JP1705 W 20040217  |      |          |                  |          |
| AB An org. thin-film transistor device with high carrier mobility and a method for manufg. such a device are disclosed. The org. thin-film transistor was characterized in that it comprises a thin film which is produced by ***CVD*** using a reaction gas and whose surface has a contact angle of pure H2O .gtoreq.50.degree. and an org. semiconductor layer formed on the thin film. |      |          |                  |          |
| IT ***681-97-0*** ***83048-65-1***   |      |          |                  |          |
| RL: RCT (Reactant); RACT (Reactant or reagent)<br>(formation of base layers in manuf. of org. thin-film transistors)   |      |          |                  |          |
| RN 681-97-0 CAPLUS   |      |          |                  |          |
| CN Silane, triethoxy(3,3,3-trifluoropropyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)   |      |          |                  |          |

/ Structure 53 in file .gra /

RN 83048-65-1 CAPLUS  
CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 54 in file .gra /

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2004:271350 CAPLUS <<LOGINID::20070829>>  
DOCUMENT NUMBER: 140:293288  
TITLE: Pattern-mounted macromolecular supports, their fabrication, and functional devices including the same  
INVENTOR(S): Tejima, Katsuya; Takai, Osamu; Sugimura, Hiroyuki; Inoue, Yasushi  
PATENT ASSIGNEE(S): Dainippon Printing Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.  
CODEN: JKXXAF

DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE     |
|---------------|------|----------|-----------------|----------|
| -----         | ---- | -----    | -----           | -----    |
| JP 2004098351 | A    | 20040402 | JP 2002-260405  | 20020905 |
|               |      |          | JP 2002-260405  | 20020905 |

PRIORITY APPLN. INFO.:

AB In the process, macromol. supports are exposed to high energy rays to possess fine unevenness of roughness 5-200 nm on surface, coated with highly repellent layers at 1-150-nm thickness by vapor deposition, and exposed patternwise to high-energy rays in reactive atm. to have hydrophilic patterns. The repellent layers may be org. Si materials SixOyCzH.alpha. and the hydrophilic layers may be silica. The repellent layers may be SAM (self-assembled monolayer) adsorbed on the supports with functional groups patternwise converted to hydroxyl groups. Color filters having pixel elements arranged along with the thus-formed patterns and printed circuit boards having metal wirings along with the thus-formed patterns, are sep. claimed.

IT \*\*\*18395-30-7\*\*\* , Isobutyltrimethoxysilane \*\*\*51851-37-7\*\*\* ,  
 (Tridecafluoro-1,1,2,2-tetrahydrooctyl)triethoxysilane \*\*\*101947-16-4\*\*\*  
 , (Heptadecafluoro-1,1,2,2-tetrahydrodecyl)triethoxysilane  
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical  
 process); TEM (Technical or engineered material use); PROC (Process); USES  
 (Uses)  
 (self-assembled, partially hydrophilized; formation of high-contrast  
 wettability patterns on macromol. supports by high-energy exposure for  
 functional device fabrication)

RN 18395-30-7 CAPLUS

CN Silane, trimethoxy(2-methylpropyl)- (CA INDEX NAME)

/ Structure 55 in file .gra /

RN 51851-37-7 CAPLUS

CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (CA  
 INDEX NAME)

/ Structure 56 in file .gra /

RN 101947-16-4 CAPLUS

CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-  
 heptadecafluorodecyl)- (CA INDEX NAME)

/ Structure 57 in file .gra /

L11 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:506568 CAPLUS <<LOGINID::20070829>>

DOCUMENT NUMBER: 139:89063

TITLE: Surface-modified composites and their production

INVENTOR(S): Hebenstreit, Juergen; Hoyer, Thomas; Voigt, Ingolf;  
 Voigtsberger, Baerbel

PATENT ASSIGNEE(S): Hermsdorfer Institut Fuer Technische Keramik E.V.,

SOURCE: Germany  
 Ger. Offen., 6 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO.  | DATE     |
|------------------------|------|----------|------------------|----------|
| -----                  | ---- | -----    | -----            | -----    |
| DE 10163646            | A1   | 20030703 | DE 2001-10163646 | 20011221 |
| PRIORITY APPLN. INFO.: |      |          | DE 2001-10163646 | 20011221 |

AB The surface-modified composite, which is water-repellent, dirt-repellent, antiadherent, wear-resistant, corrosion-resistant, and elec. insulating, consists of 3 component parts (1) a metal, plastic, or ceramic substrate, (2) a porous ceramic, metal, or cermet coating produced by plasma spraying, thermal spraying, powder sintering, deposition from a gas phase (e.g., \*\*\*CVD\*\*\*, PVD), deposition from a liq. phase (e.g., sol-gel technique), or electroplating, and (3) an inorg.-org. nanocomposite material which fills out pores of the layer 2 and form a top coating layer. Porosity of the layer 2 is 2-35%, and pore diam. is 10 nm-10 .mu.m. The nanocomposite materials may be deposited in the form of a liq. precursor which is then dried and hardened (e.g., by UV light or microwaves). The composites are esp. suitable for exterior linings in building industries.

IT \*\*\*2550-02-9\*\*\*, Propyltriethoxysilane  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (in nanocomposite layer for surface-modified composites)  
 RN 2550-02-9 CAPLUS  
 CN Silane, triethoxypropyl- (CA INDEX NAME)

/ Structure 58 in file .gra /

IT \*\*\*429-60-7\*\*\*, (3,3,3-Trifluoropropyl)trimethoxysilane  
 \*\*\*51851-37-7\*\*\*, Tridecafluoro-1,1,2,2-tetrahydrooctyl)triethoxysilane  
 \*\*\*101947-16-4\*\*\*, Heptadecafluoro-1,1,2,2-tetrahydrodecyl)triethoxysilane  
 ne  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (water- and dirt repellent in nanocomposite layer for surface-modified composites)  
 RN 429-60-7 CAPLUS  
 CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 59 in file .gra /

RN 51851-37-7 CAPLUS  
 CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (CA INDEX NAME)

/ Structure 60 in file .gra /

RN 101947-16-4 CAPLUS  
 CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-

heptadecafluorodecyl)- (CA INDEX NAME)

/ Structure 61 in file .gra /

L11 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2000:713127 CAPLUS <<LOGINID::20070829>>  
DOCUMENT NUMBER: 133:301735  
TITLE: Formation and patterning of organic monomolecular film  
INVENTOR(S): Shimoda, Tatsuya; Miyashita, Satoru; Takai, Osamu;  
Sugimura, Hiroyuki  
PATENT ASSIGNEE(S): Seiko Epson Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.             | KIND  | DATE     | APPLICATION NO. | DATE     |
|------------------------|---|----------|-----------------|----------|
| -----                  | ---   | -----    | -----           | -----    |
| JP 2000282240          | A   | 20001010 | JP 1999-94349   | 19990331 |
| JP 3879312             | B2  | 20070214 |                 |          |
| PRIORITY APPLN. INFO.: |   |          | JP 1999-94349   | 19990331 |
| AB                     | A method for forming an org. monomol. film involves cleaning the surface of a substrate, making the surface hydrophilic, and depositing a fluorinated alkylsilane monomol. film on the substrate by a ***CVD*** method. A method for patterning the monomol. film involves patternwise irradiation with a UV light or electron beam. A lithog. method is also described, which uses the patterned monomol. film as a resist film of an etching stopper. |          |                 |          |
| IT                     | ***429-60-7*** , 3,3,3-Trifluoropropyltrimethoxysilane ***83048-65-1***   |          |                 |          |
|                        | , Heptadecafluoro-1,1,2,2-tetrahydrodecyltrimethoxysilane   |          |                 |          |
|                        | ***85857-16-5*** , Tridecafluoro-1,1,2,2-tetrahydrooctyltrimethoxysilane  |          |                 |          |
| RL:                    | PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  |          |                 |          |
|                        | ( ***CVD*** and patterning of fluoroalkylsilane monomol. film for lithog. resist as etching stopper)  |          |                 |          |
| RN                     | 429-60-7 CAPLUS   |          |                 |          |
| CN                     | Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)  |          |                 |          |

/ Structure 62 in file .gra /

RN 83048-65-1 CAPLUS  
CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 63 in file .gra /

RN 85857-16-5 CAPLUS  
CN Silane, trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (CA INDEX NAME)

/ Structure 64 in file .gra /

L11 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:622716 CAPLUS <<LOGINID::20070829>>

DOCUMENT NUMBER: 127:310357

TITLE: Coating of transparent water-repellent thin films by plasma-enhanced \*\*\*CVD\*\*\*

AUTHOR(S): Takai, Osamu; Hozumi, Atsushi; Sugimoto, Nobuhisa

CORPORATE SOURCE: Department of Materials Processing Engineering, Nagoya University, Chikusa-ku, Nagoya, 464-01, Japan

SOURCE: Journal of Non-Crystalline Solids (1997), 218, 280-285  
CODEN: JNCSBJ; ISSN: 0022-3093

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Transparent water-repellent thin films are prep'd. by radio-frequency (rf) and microwave plasma-enhanced \*\*\*CVD\*\*\* (PECVD) methods using organosilicon comp'ds. and fluoro-alkyl silanes (FASs) as source gases. First we prep. the water-repellent films by using three kinds of FASs by rf PECVD. The obtained contact angles depend on the length of perfluoro-alkyl groups ( $-C_nF_{2n+1}-$ ,  $n = 1, 6$  and  $8$ ) in FASs. The max. contact angle is about 108.degree. which is comparable to that for polytetrafluoroethylene (PTFE). Next we prep. the water-repellent films by mixing FAS and trimethylmethoxysilane (TMMOS) using microwave PECVD. The films consist of silicon oxide contg. C-F and Si-CH<sub>3</sub> bonds and has high water repellency. The fluorine concn. at the surface does not relate directly to the contact angle. The films prep'd. by both PECVD methods are transparent in the visible region. PECVD is a suitable technique to prep. transparent water-repellent thin films at low substrate temps. (below 100.degree.C).

IT \*\*\*429-60-7\*\*\* \*\*\*83048-65-1\*\*\* \*\*\*85857-16-5\*\*\*

RL: PEP (Physical, engineering or chemical process); PROC (Process)  
(precursor; coating of transparent water-repellent thin films by plasma-enhanced \*\*\*CVD\*\*\* )

RN 429-60-7 CAPLUS

CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 65 in file .gra /

RN 83048-65-1 CAPLUS

CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 66 in file .gra /

RN 85857-16-5 CAPLUS

CN Silane, trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (CA INDEX NAME)

/ Structure 67 in file .gra /

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS



RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> E US 2004-765366/AP, PRN 25

|     |       |                   |
|-----|-------|-------------------|
| E1  | 4     | US2004-765361/AP  |
| E2  | 1     | US2004-765365/PRN |
| E3  | 1 --> | US2004-765366/AP  |
| E4  | 0     | US2004-765366/PRN |
| E5  | 1     | US2004-765369/PRN |
| E6  | 1     | US2004-765372/AP  |
| E7  | 1     | US2004-765373/AP  |
| E8  | 1     | US2004-765373/PRN |
| E9  | 1     | US2004-765375/AP  |
| E10 | 1     | US2004-765375/PRN |
| E11 | 1     | US2004-765380/AP  |
| E12 | 1     | US2004-765384/AP  |
| E13 | 1     | US2004-765386/AP  |
| E14 | 1     | US2004-765388/AP  |
| E15 | 1     | US2004-765388/PRN |
| E16 | 1     | US2004-765390/AP  |
| E17 | 1     | US2004-765396/PRN |
| E18 | 1     | US2004-765397/AP  |
| E19 | 1     | US2004-765397/PRN |
| E20 | 2     | US2004-765401/AP  |
| E21 | 1     | US2004-765402/AP  |
| E22 | 1     | US2004-765402/PRN |
| E23 | 1     | US2004-765405/AP  |
| E24 | 1     | US2004-765405/PRN |
| E25 | 3     | US2004-765406/AP  |

=> S E3

L12 1 US2004-765366/AP

=> DIS L12 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.18 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:674693 CAPLUS <<LOGINID::20070829>>

DN 141:168967

TI Development of substrate surface modification methods for biochemical immobilization in biochips

IN Kim, Hun-Ki; Lee, Jung-Suk; Lim, Geun-Bae; Lee, Young-Sun

PA Samsung Electronics Co., Ltd., S. Korea

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|    | PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE     |
|----|---------------|------|----------|-----------------|----------|
|    | -----         | ---  | -----    | -----           | -----    |
| PI | JP 2004229663 | A    | 20040819 | JP 2004-18353   | 20040127 |
|    | KR 2004069063 | A    | 20040804 | KR 2003-5486    | 20030128 |
|    | EP 1452232    | A2   | 20040901 | EP 2004-1606    | 20040126 |
|    | EP 1452232    | A3   | 20050720 |                 |          |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

|                   |    |          |                  |              |
|-------------------|----|----------|------------------|--------------|
| US 2004185480     | A1 | 20040923 | US 2004-765366   | 20040127 <-- |
| CN 1519562        | A  | 20040811 | CN 2004-10005810 | 20040128     |
| PRAI KR 2003-5486 | A  | 20030128 |                  |              |

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COST IN U.S. DOLLARS

|            |         |
|------------|---------|
| SINCE FILE | TOTAL   |
| ENTRY      | SESSION |
| 121.67     | 466.08  |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

|            |         |
|------------|---------|
| SINCE FILE | TOTAL   |
| ENTRY      | SESSION |
| -15.60     | -15.60  |

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STN INTERNATIONAL LOGOFF AT 09:00:50 ON 29 AUG 2007